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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/777,460		02/08/2001	Marcus J.H. Willems van Dijk	P 277120 P-172.010-US	3244
909	7590	06/07/2004		EXAMINER	
PILLSBUF	RY WINT	THROP, LLP	BALI, VIKKRAM		
P.O. BOX 10500 MCLEAN, VA 22102				ART UNIT	PAPER NUMBER
,				2623	
				DATE MAILED: 06/07/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)				
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		09/77	09/777,460 WILLEMS VAN DIJK E		IJK ET AL.			
(Office Action Summary	Exam	iner	Art Unit				
		Vikkra	ım Bali	2623				
The Period for Re	e MAILING DATE of this communeply	nication appears on	the cover sheet w	ith the correspondence ac	idress			
THE MAIL - Extensions after SIX (6 - If the perion - If NO perio - Failure to r Any reply r	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUN of time may be available under the provision: d) MONTHS from the mailing date of this come d for reply specified above is less than thirty () d for reply is specified above, the maximum seply within the set or extended period for repleceived by the Office later than three monthsent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In r munication. 30) days, a reply within the tatutory period will apply a y will, by statute, cause the	no event, however, may a restatutory minimum of thir nd will expire SIX (6) MON e application to become Al	reply be timely filed ty (30) days will be considered time NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status								
1)⊠ Res	sponsive to communication(s) fil	ed on 25 March 20	004.					
•	•	2b)⊠ This action						
,	ce this application is in condition	<i>,</i> —		ters, prosecution as to the	e merits is			
clos	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition o	of Claims							
4a) 5)☐ Cla 6)⊠ Cla 7)☐ Cla	im(s) <u>1-13</u> is/are pending in the Of the above claim(s) <u>12 and 13</u> im(s) is/are allowed. im(s) <u>1-11</u> is/are rejected. im(s) is/are objected to. im(s) are subject to restrictions.	is/are withdrawn t		•				
Application F	Papers							
10)☐ The App Rep	specification is objected to by the drawing(s) filed on is/are licant may not request that any objected the drawing sheet(s) including oath or declaration is objected the discontinuous specification is objected the declaration is objected to be declaration in the declaration is objected to be declaration in the declaration is objected to by the declaration is objected to be declaration in the declaration is objected to be declaration in the declaration is objected to be declarated to be decl	: a) ☐ accepted on ection to the drawing g the correction is re	(s) be held in abeyar quired if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 C	` '			
	-	o by the Examiner	. Note the attached	d Office Action of form F	10-132.			
Priority unde	r 35 U.S.C. § 119							
a)⊠ A 1.⊠ 2.⊑ 3.⊑	nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation	documents have documents have of the priority doc onal Bureau (PCT	been received. been received in A uments have been Rule 17.2(a)).	opplication No received in this National	Stage			
Attachment(s)			_					
2) Notice of D 3) Information	References Cited (PTO-892) Praftsperson's Patent Drawing Review (I In Disclosure Statement(s) (PTO-1449 of Is)/Mail Date <u>2</u> .		Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO 	O-152)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, claims 1-11 in Paper No. 6 is acknowledged.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 3, 5 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 and 5 recites the limitation "second mark" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over van den Brink (US 4778275), (herein after 275).

With respect to claim 1, 275 discloses object place on first position, measuring a displacement, removing the object, moving the object and the table relative to one another and placing the object at the required position, (see col. 7, lines 24-40, the mask "object" is at the first position and the system AS1 aligns the mask by positioning the mask at the required position, see col. 7 line 64 through col. 8 line 5), as claimed. However, he fails to explicitly disclose the first object table, as claimed. But, reference 275 teaches that the mask "object" is held at a position (see figure 3, mask MA) and the holding of the mask is obviously being at a first table position. Therefore, one ordinary skilled in the art at the time of invention can simply consider the positions of the mask as the first object table i.e. the mask is considered to be held at a position. This modification provides an apparatus to align the mask and the substrate in order to get better yield in the lithography.

With respect to claim 2, he further discloses, aligning a first mark on he object to a second, (see col. 7, lines 25-35) as claimed.

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With respect to claim 3, he further discloses, second mark is located on the second object table, (see col. 7, lines 37-40, the mark P1 is located on the substrate) as claimed.

With respect to claim 4, he further discloses, mask is held by first object table, (see figure 3, mask MA is held by the first object table) as claimed.

With respect to claim 5, he further discloses, second mark is located on substrate, (see col. 7, lines 37-40, the mark P1 is located on the substrate) as claimed.

With respect to claim 6 and 7, he further discloses, the imaging means and the processing information about first position of the object together with information regarding the required position, (see col. 8, lines 10-35) as claimed.

With respect to claim 8, he further discloses, displacement deviation is rotational around an axis, (see col. 2, lines 23-27) as claimed.

With respect to claim 9, it is well known the lithography process is done while the mask is place using a vacuum-generating surface. Therefore, it would have been obvious to one ordinary skilled in he art at the time of invention to simply use the vacuum generating surface to hold the mask "object" as it is conventionally done in the art of lithography.

With respect to claim 10, he further discloses, the radiation source, (see col. 8, lines 10-15) as claimed.

Claim 11 is rejected for the same reasons as set forth in the rejection of claim 1, because claim 11 is claiming subject mater similar to claim 1.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 703.305.4510. The examiner can normally be reached on 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703.308.6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vikkram Bali

Primary Exampler

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vb

May 25, 2004